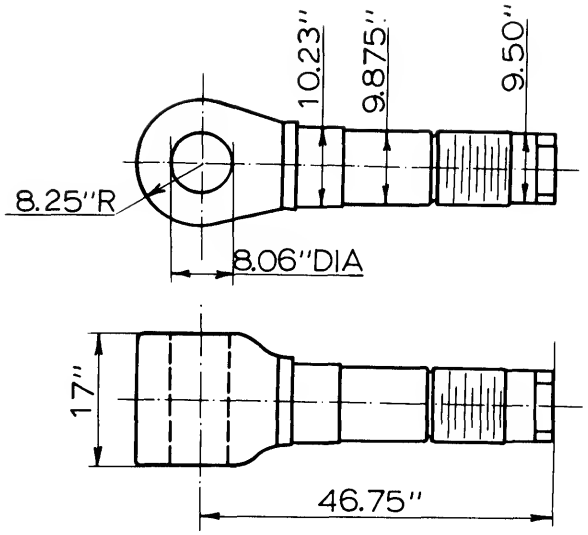

Fig. 29.11 Travelling block swivel eye.

The primary tensile stress based on Eq. (29.25) is

$$S_t = \frac{800,000}{2 \times 17(8.25 - 4.03)} = 5,575 \text{ psi}$$

From Fig. 29.10, $G(\lambda) = 0.29$. The approximate correction factor from Fig. 28.2 is obtained for curved-beam parameter equal to 2.91, This gives $\phi_0 = 1.37$. Then, from

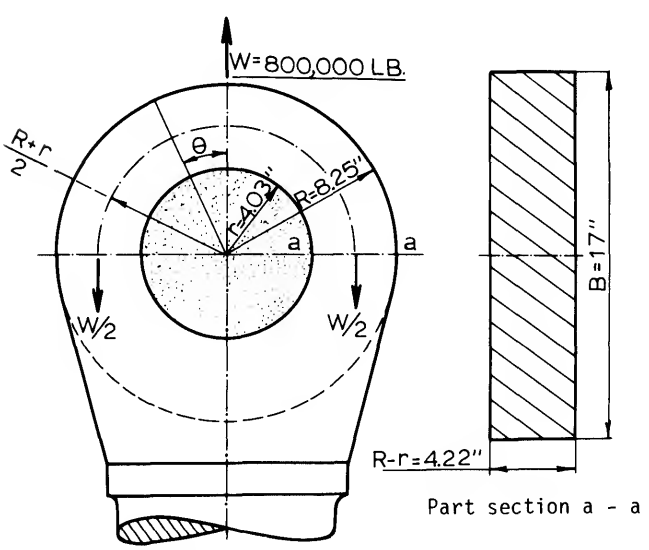

Fig. 29.12 Eye portion of swivel shaft for Design Problem 29.1.